

# KENT MERDES

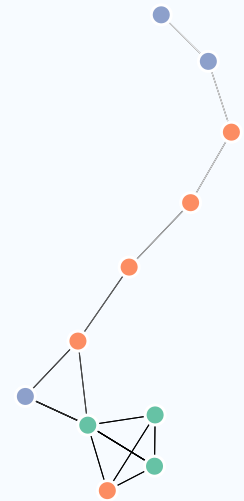
Currently searching for a position that allows me to build tools leveraging a combination of visualization, machine learning, and engineering to help people explore and understand their data in new and useful ways.

## EDUCATION

- 2017  
|  
2015
- **M.S., Predictive Analytics/Data Science**  
Northwestern University 📍 Evanston, IL
    - Professional Studies program in Predictive Analytics and Data Science. Working languages included R, SAS, and Python
    - Advanced Machine Learning specialization track.
    - Final Capstone utilized High Performance Computing Cluster to train and test machine learning models to predict high impact crime on City of Chicago large crime data set
- 2001  
|  
1999
- **M.Ed., Secondary Education**  
University of Notre Dame 📍 Notre Dame, IN
    - Emphasis on Secondary Mathematics and Physics Education
- 1999  
|  
1995
- **B.S., Mechanical Engineering**  
Villanova University 📍 Villanova, PA

## INDUSTRY EXPERIENCE

- 2020  
|  
2018
- **Assistant Director Enrollment Analytics**  
Embry-Riddle Aeronautical University 📍 Daytona Beach, FL
    - Design and build descriptive, predictive, and prescriptive models for the residential Enrollment Management Department here at Embry-Riddle Aeronautical University. Areas of focus include student recruitment, student retention, financial aid, and student enrollment.
    - Led residential enrollment reporting workflows, including modeling, visualizations, reporting, and data governance
    - Developed predictive models for enrollment management student funnel including deposit prediction, melt prediction, retention, and financial leveraging.
- 2020  
|  
2015
- **Regional Manager**  
Enviro Probe, Inc. 📍 Orlando, FL
    - Conduct Phase 1 Environmental Site Assessments and property condition assessments in the environmental due diligence field for clients and properties all over the US. Projects include commercial properties ranging from large multi-family residential properties to industrial sites. Experienced in projects financed through the Small Business Administration (SBA), Fannie Mae, and Freddie Mac.

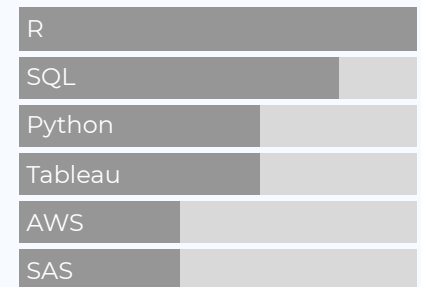


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## CONTACT

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in [linkedin.com/in/kmerdes](https://www.linkedin.com/in/kmerdes)  
📞 (803) 504-8812

## LANGUAGE SKILLS



Made with the R package [page-down](#).

Last updated on 2020-10-05.

2020  
|  
2020



### Data Scientist

SEM Works

📍 Remote

- Provide data science-focused support and guidance to Enrollment Management teams at various higher educational institutions



## TEACHING EXPERIENCE

2020  
|  
2020



### Business Analytics Adjunct Faculty

Embry-Riddle Aeronautical University

📍 Worldwide Online

- Course Instructor BUAN 301 - Evidence-Based Management: The Need for Data

2015  
|  
2013



### Physics Teacher

American International School Vienna

📍 Vienna, Austria

- Primary teaching responsibilities included International Baccalaureate (IB) Physics Standard and Higher Level and Introduction to Physical Science courses. As a strong advocate for technology integration and project-based learning, spearheaded the implementation of a Capstone Final Project assessment for all Grade 9 students.

2013  
|  
2007



### Science Head of Department, AP Coordinator, Physics Teacher

Shanghai American School

📍 Shanghai, China

- Led secondary science department through large enrollment growth cycle, curricular redesign, and science facilities upgrades. Oversaw the Advanced Placement (AP) Program school-wide with tasks ranging from professional development to test management and logistics. Instructor and course designer for Advance Placement Physics C, General Physics, and International Baccalaureate (IB) Standard and Higher Level Physics courses.

2007  
|  
2003



### Math and Physics Teacher

American International School Vienna

📍 Vienna, Austria

- Taught various STEM courses including IB Physics and AP Statistics.

2003  
|  
2001



### Physics Teacher

Charlotte Catholic High School

📍 Charlotte, NC

- Taught Honors Physics and Physical Science courses.

I am passionate and enthusiastic educator. I believe my experience in the classroom translates beyond teaching and learning and into my various professional roles.